



Elemental Analysis - Whole Blood
Inductively Coupled Plasma/Mass Spectrometry

Sample Client

Practitioner	Regenerus Labs	Dates	Taken	Arrived	Analyzed
Date Of Birth	1/1/1973	Present	7/5/2016	7/8/2016	7/13/2016
		Previous	NA	NA	NA

Nutrient Elements

Percentile Rank by Quintile										
Element	7/5/2016	NA	Range	Units	20	40	60	80	100	Percentile
Calcium	5.63	NA	4.44-6.21	mg/dL						73%
Copper	86	NA	60-111	µg/dL						52%
Lithium	2.4	NA	<0.1-10.8	µg/L						48%
Magnesium	3.54	NA	2.80-4.05	mg/dL						63%
Manganese	8.2	NA	2.3-14.5	µg/L						48%
Molybdenum	0.4 B	NA	<0.2-1.4	µg/L						35%
Selenium	129	NA	83-320	µg/L						15%
Zinc	776	NA	403-738	µg/dL						98%

Potentially Toxic Elements

Percentile Rank by Quintile										
Element	7/5/2016	NA	Range	Units	20	40	60	80	100	Percentile
Arsenic	1.0	NA	<5.2	µg/L						38%
Cadmium	< 0.1	NA	<0.7	µg/L						N/A
Cobalt	< 0.1	NA	<1.0	µg/L						N/A
Lead	0.66	NA	<2.10	µg/dL						24%
Mercury	0.7 B	NA	<5.8	µg/L						26%
Silver	< 0.1	NA	<0.9	µg/L						N/A
Strontium	16	NA	<61	µg/L						25%

These test results are not intended for the diagnosis of disease. They are intended for interpretation by qualified healthcare professionals with a full knowledge of patient history to assist in their administration of an appropriate healthcare regimen.

Report Comments and Interpretation

Reference ranges are compiled from laboratory generated data to reflect the 5th-95th (or <95th) percentile ranking of the sample population with the following exceptions:

- Upper limit of the reference ranges for antimony, arsenic, cadmium, and lead reflect the 90th percentile of population data.
- Upper limit of the reference ranges for cobalt and strontium reflect the 99th percentile of population data.
- Upper reference range for mercury reflects EPA specified guidelines.

The blood lead reference level for children ages 1-5 is 5 µg/dL, which represents the 97.5 percentile.

- CDC update October 30, 2012

Results for elements that are not detected are reported as "< x," where x is equal to the method detection limit.

Percentile rankings are only plotted for elements with sufficient population data and for results greater than the method detection limit for the particular element.

Results containing a "B" indicate that the result is between the method detection limit and the method quantitation limit and should be considered an estimate. These results are reported with 99% confidence that the result is greater than zero, but the result is not accurately quantifiable and has +/- 100% uncertainty.

Results containing an "H" indicate the result is above the instrument calibration range for that particular element, so the accuracy of the reported value cannot be guaranteed. However, any result that is above the calibration range is above the 99.9 percentile.

Cobalt is listed as a potentially toxic element in this panel because of metallosis of cobalt/chromium hip replacements. Cobalt can also be a nutrient element and is not generally considered toxic at levels <1 ppb in whole blood. A person with >1 ppb cobalt without a hip replacement may be experiencing external cobalt exposure that may indicate toxicity. A person with a hip replacement will tend to have increased cobalt levels in general but may not be at risk of toxicity until the level is >5 ppb. The UK's Medicines and Healthcare Products Regulatory Agency suggests that >7 ppb cobalt in whole blood indicates a potential soft tissue reaction. It is important to note that a person could experience symptoms of cobalt toxicity at lower levels than 5 ppb and, likewise, could experience no symptoms of cobalt toxicity at >5 ppb.

Report Qualifiers

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